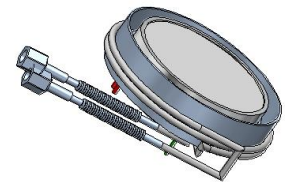
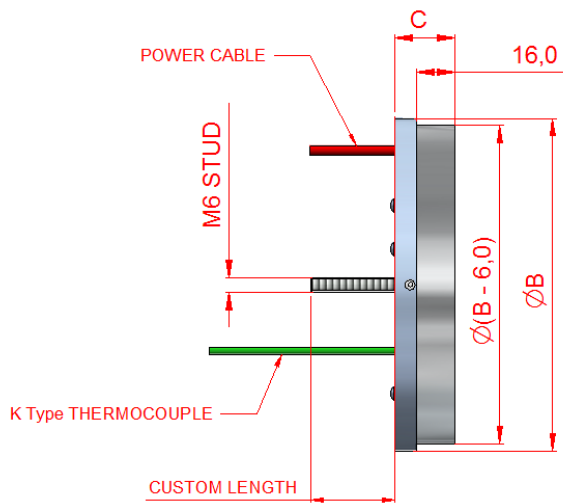


## Ceramic Topped In Vacuum Heater Head with NiCr Filament



### Features

- 800C Ceramic top plate temperature (1000C Element temperature)
- Integrated type K thermocouple
- Ramp rate up to 400C per Minute
- Can be mounted in any orientation
- Power & thermocouple cables can exit: side, rear edge (as shown above) or rear centre
- Reliable low cost proven design.
- For use in high vacuum, inert atmosphere and O<sub>2</sub> / air.
- Custom sizes available on request.
- Can be used as direct replacement for Halogen lamp heaters
- Additional outer heatshield available as an option.
- Water cooling of additional outer heatshield available as an option.

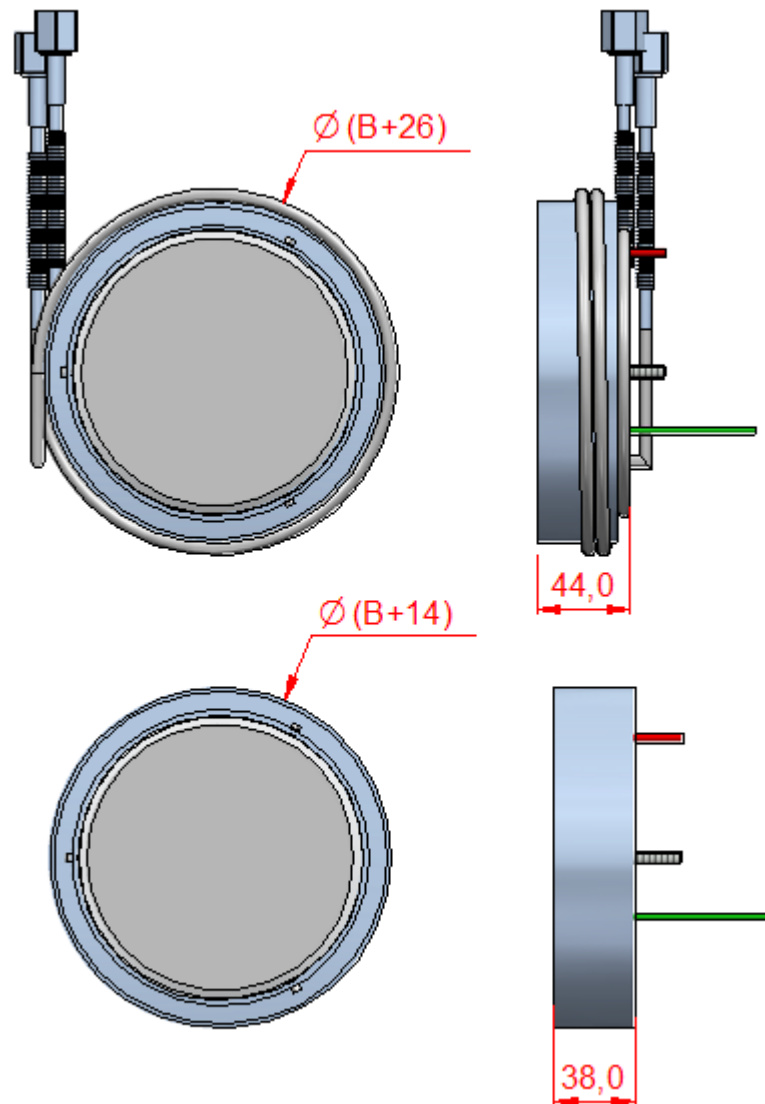


Heater with water cooled outer heatshield

Part No Add -WC for cooling option	ØA - Hot Zone	ØB - Heater o.d.	C - Heater Thickness	O.D. cooled shield OPTION	In Vacuum @1000C		
					Voltage Max	Current Max	Power Max
HCM6-NCR-01	26 (1")	40	25	-	30	5	150
HCM6-NCR-02	52 (2")	66	25	92	40	10	400
HCM6-NCR-03	78 (3")	92	25	118	85	15	1275
HCM6-NCR-04	105 (4")	119	25	145	110	15	1650
HCM6-NCR-05	129 (5")	143	25	169	170	17	2890
HCM6-NCR-06	156 (6")	170	25	196	200	20	4000
HCM6-NCR-07	179 (7")	193	25	219	125	36	4500
HCM6-NCR-08	205 (8")	219	25	245	150	36	5400

Power, voltage and current figures are an indication only. Heaters can be made with different voltages and power densities.

**Drawing showing heater with additional outer heatshield & water cooling option**



- Outer heatshield improves heater uniformity and reduces heat load on chamber
- Water cooling using  $\varnothing 6.0$ mm tube wrap
- Connection via 4VCR or swagelok fittings.
- Can be supplied with flexible bellows
- Cooling water flow rate 1 ltr/min @ ambient temperature

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